



# MARICOPA COUNTY PLANNING & DEVELOPMENT



## FLOOD CONTROL REQUIREMENTS FOR PRECISE PLAN - DRAINAGE INFORMATION

A detailed drainage report with respect to hydrology and hydraulics in conjunction with grading, drainage and paving plans will need to be submitted. The final drainage plan needs to be signed and sealed by an Arizona Registered Professional Civil Engineer and should address the following:

1. **Offsite Hydrology**- Need to determine the quantity, the entrance and exit points, and how the flow is to be routed through the site.
2. **Onsite Hydrology**- Need to show how the flows are to be routed to retention basins.
3. **Onsite Retention**- Need to retain water for the 100-year, 2-hour storm for the developed site. Determine volume needed and the size and location of basins.
4. **Onsite Hydraulic Calculations**- Need to show hydraulic analysis for any channels, culverts, storm drains, or street drainage.
5. **Cross Sections**- Need to show perpendicular cross-sections through the site indicating property lines, swales, retention areas, finished floors, and street details.
6. **Finished Floor Elevations**- Need to show finished floor elevation and certification note.
7. **Topography**- Need to show natural and proposed contour elevations or spot elevations.
8. **Dry Wells**- If applicable, need to submit a copy of the dry well registration before issuance of a permit.
9. **Floodplains**- Need to show the delineated floodplain boundaries if the site is within a Federal Emergency Management Agency's (FEMA) special flood hazard area. Will also need to apply for a Floodplain Use Permit. Delineate all floodplains (non-FEMA) of 50 cfs or greater.
10. **Erosion Setbacks**- For washes and other watercourse channels an erosion setback will need to be determined, which meets Arizona State Standard 5-96.

11. **Fill out the following Table :**

Miles/Acres of Protected Natural Watercourse <sup>1</sup>		
Miles of Improved Watercourse or Storm Drain <sup>2</sup>		
Acres of Retention or Detention Areas <sup>3</sup>		

<sup>1</sup>Miles/Acres of watercourse that are preserved in a natural state.

<sup>2</sup>Miles of watercourse that is altered by bank stabilization, channelization, storm drain installation, or grading. Curb and gutter does not qualify as watercourse.

<sup>3</sup>Acres of Retention/Detention to be constructed as drainage infrastructure.

Since complex drainage systems may require more detailed information, a meeting should be arranged with a reviewer from the Flood Control District's Development Review Branch.

FEE:	\$1,000.00 + \$200.00/Acre	\$10,000.00 maximum
With TAC Hearing – Total and Additional	\$75.00	
With Public Meeting – Total and Additional	\$75.00	

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